#14. Hawaiian Explorations. D: 4005 - 4034. Hy. 4464 - 4483. June 17th - July 9th, 1902/

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NO. 4005 Date 1 Machine. Reel. Cor. + 3 0 Shot or lead Bottom Bottom temperature No. of thermometer Cor. Corrected temperature Air Surface Drift Trawl or dredge ork SOUNDING WIRE DREDGE DOWN. DOWN. 10,47,40 38.40 8.0 100 7, OV .08.4V 4911 200 300 33.20 400 30.35 500 10:03.50 Gold 700 92, 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 9-571

SERIAL TEMPERATURES. DEPTH. TEMP. NO. OF THER. COR. COR. TEMP. James traut: 2 eps, medusae; 3 ops prawns; 1 machuran; fyrosor eyclothone: sel ctromus try diasha

REMARKS:

Thank was or buttom at 850 fax. 11. 40 a. 300. Tham, and glass float Ant: Net mreaded.

No. Hy. 4464. Date 17 June 02. Sirsbee Machine. Neel. Navy Turns 436 Cor. + 44 Depth 480 for Shot or lead 35 Sh Bottom Co S. For. Bottom temperature 40.6 No. of thermometer 92449. Cor. Corrected temperature Air 80. - Surface 77 - Drift Trawl or dredge Om. SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. UP. 12-44.30 12.54.05 45.20 53.00 100 46.05 51.55 200 47.00 10.55 300 47.50 49.55 400 12, 48.10 12.49.30 600 700 800 als marks and 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2-571

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DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
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P.S. = 40.8 No. Dr. 4006. Date 17 Cinsbee Machine. 1 Reel. / Man Turns 220 Cor. + 22 Depth 242 fms. Shot or lead 35 Lbs. Bottom Co S. For. K 47.5 Bottom temperature No. of thermometer 92444 Cor. Corrected temperature Air 80. - Surface - Drift Trawl or dredge &' Janner and apris A. DREDGE ROPE. DOWN. UP. TURNS. 1.06.30 1.11.50 1.18.45-00 0 07.15 22.15 22.25 08.05 25.20 18.40 09.40 200 1.09.304 1.08.15 33-15 350 1. 39.40 400 420 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2-571

Wila Part, N620 W, 4510 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 SERIAL TEMPERATURES. DEPTH. TEMP. NO. OF THER. COR. COR. TEMP. 25 Janner Frank = 50 100 200 400 500 600 700 800 900 1000 REMARKS: I topped letting out dr. wine at 400 for. but How Les strain warred out to 420 for Shortly alter . - When heaving in had to very out from 360 to 390 for (= 30 fors), while turning under port helm to clear travel . -Phair at 200 for. (4500 db.) im whately after up to 1000 Lto. Net wreckens, which egge

Hy. 4465. Date 1 Sigsbee Machine A Reel. Turns 52 Cor. + J Shot or lead 36 Bottom Crs les S. & Bottom temperature No. of thermometer 92449. Cor. Corrected temperature Air 81. - Surface Trawl or dredge SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. DOWN. UP. 2.31.40 100 200 300 400 500 600 700 800 900 1000 TIOO 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400

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SERIAL TEMPERATURES.

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P.L .= 42 ...

No. A. 400 f. Date V tune 02. City ce Machine. Reel.

Turns / Cor. + 4 Depth

Shot or lead 36 Bottom g

Bottom temperature

No. of thermometer

Corrected temperature

Air 8/ - Surface

Trawl or dredge

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4466 Date Machine, Recl. Turns 506 Cor. + 5 Depth Shot or lead Bottom (QU) Bottom temperature No. of thermometer Cor. Corrected temperature Surface Drift Trawler-dredse SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. - 75.30 0 35,20 100 34.20 200 33.20 300 400 500 506 700 800 900 1000 1100 1200 1300 1400 1500 1000 1700 1800 1900 2000 2100 2200 2300

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SERIAL TEMPERATURES.

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Na . 4467 Date Machine. F/ Recl. Turns //7 Cor. + DepthShot or lead Bottom Bottom temperature 92449 Cor. No. of thermometer Corrected temperature Air 80 ... Surface .. / DriftTrawl or dredge SOUNDING WIRE. DREDGE ROPE. TURNS, DOWN. DOWN. UP. 1-56.05 . 1.75 100 400 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 9-571

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SERIAL TEMPERATURES.

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SERIAL TEMPERATURES.

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REMARKS

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4468 Date 1111 Machine, #9 Reel. Turns / 80 Cor. + Depth 36 Shot on lead Bottom .. Bottom temperature No. of thermometer 32. Corrected temperature Air // Surface DriftTrawl or dredge SOUNDING WIRE. DREDGE ROPE. DOWN. DOWN. UP. 200 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

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SERIAL TEMPERATURES,

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P.L. 45.6 1 No. 5 4009 Date July 17 Machine. Geel. Turns Cor. + Shot or lead Bottom temperature -am. (86,08 No. of thermometer Corrected temperature Air J9 Surface 16 Drift 3! SOUNDING WIRE.

DOWN. UP.

6-450 7.590 DREDGE ROPE. TURNS. Comparatively 7. 1.30 7.130 1030 male runnet in frist hand 7.116 7.276 10 400 In 3) feel 7.310 7.410 1000 Capedaya MINI abrid a asit. 7. 45 1 7. 550 10 800 B 1 2 11 7.57C 8:00 010,000 which is 6:14 x 1.3. 11 1200 1 to 10. 12. 7 .. 20 = 71 miles い ソンカルバナー 1400 6, 6, 4 Ju 1500 1600 Park I The ARL Geginning just 1700 without Copepido before sandhum 1800 ten minute hauls 2 hippocampus; with 2 reto, all puil sigasus; mall crystacea 2100 2 florenders with freserved cela-2200 hate how fach 2300 2400 nearly full moonlight; in

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REMARKS: 48.6 When co

No. 1 0 0 Date Recl. Machine. Turns Cor. + Depth Shot or lead Bottom Bottom temperature No. of thermometer Corrected temperature Surface AirTrail or dredge . SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. DOWN. UP. 300 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2200

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SERIAL TEMPERATURES.

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REMARKS:

10.0

- Date Machine. Turns Cor. + Shot or lead Bottom . Bottom temperature Cor. (86208 No. of thermometer. Corrected temperature Surface Air Trawl-or-dredge 2 S . .. SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. Ct. 7. 2.10 100 10 200 300 400 500 600 700 800 900 1000 1100 1200 4 Carelo - 43 1300 1400 1500 1600 1800 1900 2000 and crabo. no mo 2100 especious offen durin 2200 delistight. 2300 2400 2 671

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SERIAL TEMPERATURES.

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REMARKS:

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SERIAL TEMPERATURES.

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1000	sitty) less.	1	

Date . Machine. | Reel. Shot or lead Bottom Bottom temperature No. of thermometer. Cor. Corrected temperature Trawl or dredge SOUNDING WIRE. ROPE TURNS 2-571

Harringer School 11.2,	N82045141, 37/0'
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SERIAL "	FEMPERATURES.

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No. Ar. 4014 Date 30 June 02. Machine Reel Nov Sinsbec Depth Turns 3/3 Cor. + Shot or lead 36 Lb . S. Foramo. Bottom 40.0 Bottom temperature. No. of thermometer Cor. Corrected temperature Air 77 - Surface 7 Drift ... Trawl or dredge 8' SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. DOWN. UP. 1. 15. -- 11.1/2.30 1.5400 55.30 .100 58.47 200 -/0 300 36.25 13. 38.50 12-30. 400-500 700 800 900 1000 1100 1200 1300 1.100 1500 1800 1000 2000 2100 2200

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DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
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Mai Kniko

115 . Date .) Machine. Reel. Turns 329 Cor. + Depth Shot or lead 36 LR. Bottom Bottom temperature No. of thermometer 7 Cor. (H457 Corrected temperature Air Surface Drift Trawl or dredge 8' /2 SOUNDING WIRE. TURNS. DOWN. DOWN. UP. 54.25 2.01.21 2 00 15 200 300 . :--400 500 also concoder es -700 800 . 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2-571

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DEPTH.	TEMP.	NO. OF THER.	COR.	COR, TEMP,
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No. . . . 40/6 Date 20 from 02. Machine A Recl. Turns 789 Cor. + 79 Depth Sil fac. Shot or lead 36 Skg. 6-6 C Bottom Bottom temperature No. of thermometer 92 4 Q. Cor. Corrected temperature Air Surface Drift (7 10' Trawl or dredge SOUNDING WIRE. . DREDGE ROPE. TURNS. DOWN. DOWN. 3.12.05 3. 3.23.400 100 200 110 09.50 05.36 28.1. 400 : - 02.10 500 3- 55.40 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900

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4017 Date 20 ene 02. Machine. Recl. Turns Cor. + Depth . Shot or lead 36 Bottom 43.3 Bottom temperature No. of thermometer 9244 Cor. Corrected temperature Air / Surface Drift Trawl or dredge SOUNDING WIRE DREDGE ROPE TURNS. 200 400 150 600 700 800 900 1000 1100 1200 1300 1400 1500 1000 1700 1800 1900 2000 2100 2200 2300 2400 2 - 571

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Machine. Dopth Shot or lead Bottom temperature No. of thermometer 7 Cor. Corrected temperature AirSurface Drift 1 OA'1111 Trawl or dredge PREDGE ROPE SOUNDING WIRE. TURNS. DOWN. UP. 31.40 0 24.10 100 200 18.25 300 15.20 400 500 08.50 600 05.00 700 .01.00 9.01:00 04.25 900 50.00 1000 0.00 IIOO * 10 -1200 30.30 1400 10 330 1500 1600 263110 -1700 1800 Ja On in lien for 1900 this Fine 2000 2100

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507, No. Dr. 4019. Date 21 King 00. Circhee Machine. A / Reel. Turns 6. 9 Cor. + 1 = Depth 124 fine. Shot or lead 3 5 de Au.S. From. 37.80 Bottom temperature No. of thermometer 9. Cor. Corrected temperature Air - Surface Trawl or dredge & Am. DREDGE ROPE. ELW. SOUNDING WIRE. TURNS. DOWN. C. 20 50 d. 11 --119.21 0 31.30 43.50 IOO 52.40 132.20 16.6. 200 33.15 57.30 300 45,10 10.11 10.01.10 400 500 1 2:12.10 10-32.30 700 min. 800 ales merks en 900 Eplandit Land 1000 1200 1300 4. Trawl 1400 1500 40° angle 1600 1700 1800 1900 2100 2200 2300 2400 9--571

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REMARKS:

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Dr. 4020. Date 2! 1 110 09. Citabee Machine. / Rect. ? Turns 37 2 Cor. + 37 = Depth / Sav. Shot or lead 36 Lly. Bottom Co, S. Bottom temperature 41. No. of thermometer 9:3 Corrected temperature Air. 81. - Surface TV. Trawl or dredge & Tanin Sounding WIRE. DREDGE ROPE. TURNS. 1920 16,00 D. 17.20 11.06.00 () 05. 06.00 10.5 TO. 00 02.35 57.50 22.1 01. 23 200 11.63.45 55.50 26.55 11. 20.2. 30.30 1 - 2 . 3 . . 600 700 800 1000 * Middles 2007.1.1 milhalin 1190 un : "lois l'ny 1200 4. The " 1000 1. . will ky may itis 1396 Alexien ham and 1400 the after or the se les 1500 6 11 11 11 1600 Vi is in 1700 Mr. dr. in all con 1800 ust 250 fms. fr 1900 2000 2100 2200 2300 2400

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101 | Date Machine. Reci Turns 260 Cor. + Depth Shoot or lead 36 Bottom On Bottom temperature No. of thermometer Cor. Corrected temperature Air SI DriftSurface Trawl or dredge 10 13 110 SOUNDING WIRE. DREDGE ROPE TURNS. DOWN. UP. 1.10 34.45 12.10 100 400 4020 500 23711 25 20 6(x) 700 Soo 900 1000 1100 1250 130x) 1100 1500 1600 1700 1800 1900 2100 2200 2300 2400 3-571

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2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3000 SERIAL TEMPERATURES. Blake Franc: Dr. #402/e Materialis prepringues me min 10; 1 7000 10 1 main reputitio, Haymphurus; monocanthus; 3 dps. sponges; many (8 sps) prouns; sur munida; 3 annilids, many 300 thormosoma; many long spiried urchins, i ophiocuas; I ophiunan: 4 startish 500 it aps. holothurians; I gar gonian; hydron 600 attached to rotten coral stones 2 animones 800 900 1000 (Make Frank = ar. #4022= 2010. macrurus; 3 aps. sponges, 3 aps annelids; If Ap. Ahringo; seit long- opene urchins; seid shormosoma; 1 startish; 1 Crab; 2 hotohumano, 1 byaroid -

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Machine. # Recl. Turns 340 Cor. + 34 Shot or lead . 36 Bottom , Bottom temperature No. of thermometer Cor. Corrected temperature Air Surface DriftTravel or dredge 1 C SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. UP. () 21.00 100 200 300 14 O 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2200 2300 2400 2 571

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DEPTH.	TEMP.	NO. OF THER.	COR.	COR, TEMP.
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Reel

Shot or lead

Bottom Bottom temperature

No. of thermometer

Corrected temperature

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Surface

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No. Date 25 (1)

Turns 335 Cor. + 33

r. + .33 Depth

Shot or lead 36

Bottom fre on &

Bottom temperature

41 .:

No. of thermometer 92449. C Corrected temperature

om recicu temperature

Air Surface

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Trawl o

507.

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REMARKS:

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Machine. / Reef Nary Turns 930 Cor. + 91 Depth 1021 fmv

Shot or lead, 36 Lbs. Bottom

Bottom temperature

No. of thermometer 92440.

Air 75 Trawl or dr	Surfa	ce 75.	_ Drift	
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402 Date Machine, # / Reel. Turns Cor. + Depth & Shot or lead Bottom Bottom temperature No. of thermometer Corrected temperature AirSurface Drift Trawl or dredge / J 3 SOUNDING WIRE. DREDGE ROPE. UP. 41.45 11.00 43.25 100 43.10 46.35 15 .. 0 400 13.00 a⁵⁰⁰ 600 7,700 800 400 2 houls -1000 1100 1200 1300 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2 - 571

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Regl. Machine

Shot or lead Bottom

Bottom temperatur

No. of thermometer

Corrected temperature

Depth

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REMARKS:

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Turns Cor. + Depth
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Bottom for Co S, for

Bottom temperature 40.2°
No. of thermometer 42449.

Corrected temperature

Air 83° - Surface 78° Drift

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SERIAL TEMPERATURES.

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2 de Mail REMARKS:

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7 Date Machine. Recl

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SERIAL TEMPERATURES.

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4450 Date Machine. Reel. Turns & Cor. + : Depth & Shot or lead Bottom Bottom temperature No. of thermometer Corrected temperature AirSurface DriftTrack or dredge SOUNDING WIRE. DREDGE ROPE TURNS. DOWN. DOWN. UP. 1) 1(X) 200 3(X) 600 700 800 000 1000 1100 1200 1300 1400 1500 1000 1700 1800 1900 2000 2100 2200 2300 2400 3-571

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SERIAL TEMPERATURES.

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SERIAL TEMPERATURES.

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4. 11183. Date Six See Machine! / Reel. Turns 205 Cor. + 20 Depth Shot or lead 36 Lbs. fe as S. Bottom Bottom temperature 03.441 No. of thermometer Cor. Corrected temperature Air 79. - Surface Trawl or dredge Pm. SOUNDING WIRE. DREDGE ROPE TURNS. DOWN. DOWN. 5. TV.10 6.00.00 1/6.10 57.40 100 57.15 58.20 200 300 400 500 600 # a shuk .700 attacked the awaiting 800 low convint co 900 Kidernhie and brokely inte 1000 1100 xerino mita the 1200 correct registry 1300 & Jufe 1 minimo COLI Law Shows mukes 1500 alte Sharks Leels 1600 1700 1800 1900 2000 2100 2200 2300 2400 2 - 571

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400	ophil	ana; 1 Role	-4-13	Λ ,
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4/4/83. Date 6 10. 1939 Turns 27 Cor. + Depth 2 8 fav. Shot or lead 26 Lls. Bottom Bottom temperature No. of thermometer -Corrected temperature Air 79 Surface Drift Trawl or dredge SOUNDING WIRE. DREDGE ROPE. TURNS. DOWN. DOWN. UP. 1.05 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200

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	SERIAL	TEMPERATURES.

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SERIAL TEMPERATURES.

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hurs 403H Date Ju James Machine. - Rect. Cor. + Depth 2 Shot or lead 2 S Foram Bottom Bottom temperature No. of thermometer Corrected temperature Drift 5/1 Air Marsace. Travil or dredge & Suals SOUNDING WIRE. DREDGE ROPE. Wown. TURNS. 9-31.30 07.13 57.40 7-06.30 0 06.45 34.00 55.00 06.50 500 Carps in 200 300 400 500 600 700 800 900 1000 IIOO 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2-571

Diamond Head Light, 2/19° W., 215/10'

496 12

Jangles:

11 sps. Proto; 2 sps. alfheus;

1 squilla; 4 sps ophiurans; 3 sps

whins; 2 sps. sponge; many
clypeastids; 4 sps. starfish;

1 combound oscidion; 1 worm;

1 anemone; much conal; much
bryozoa; little algae (2 or 3 sps.);

2 sps. mollusks.

